

Title (en)

Method for pulse activation of a piezo-electric sound transmitter-transducer.

Title (de)

Verfahren zur Impulsanregung eines piezoelektrischen Schall-Sendewandlers.

Title (fr)

Procédé pour l'excitation par impulsion d'un émetteur-transducteur piézo-électrique.

Publication

**EP 0036186 A2 19810923 (DE)**

Application

**EP 81101838 A 19810312**

Priority

DE 3009975 A 19800314

Abstract (en)

[origin: US4376255A] A piezoelectric ultrasonic transducer is triggered by a predeflection of the transducer in a first direction with a square-wave pulse or a saw-tooth pulse which has a rapidly dropping trailing edge to effect deflection in the opposite direction, with an overshoot. At the maximum point of overshoot, an alternating triggering voltage, preferably in the form of a pulse sequence, is applied to energize and maintain the transducer in resonance oscillation.

Abstract (de)

Anwendung einer Voranregungsspannung (1), um den Sendewandler schon mit der ersten Periode (13) der eigentlichen Wechselspannungs-Anregung sofort auf wenigstens nahezu die volle Sende-Schwingungsamplitude (17) zu bringen, womit ein definierter Sende-Impulsanfang gegeben ist.

IPC 1-7

**H04R 3/00**; **H04R 17/00**; **G01S 7/52**; **G01S 15/10**; **B06B 1/06**

IPC 8 full level

**B06B 1/02** (2006.01); **B06B 1/06** (2006.01); **G01B 17/00** (2006.01); **G01S 7/52** (2006.01); **G01S 7/524** (2006.01); **G01S 15/10** (2006.01); **H04R 3/00** (2006.01); **H04R 17/00** (2006.01)

CPC (source: EP US)

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